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**Special thanks to:**



Biomolecular Frontiers Research Centre



**BIOPLATFORMS**  
AUSTRALIA

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Macquarie University  
2014 Synthetic  
Biology iGEM Team



## Who are we?

We are 12 undergraduate Biomolecular major students participating in the international iGEM SynBio competition ([www.igem.org](http://www.igem.org)).

## What is iGEM?

iGEM (International Genetically Engineered Machine) is an undergraduate Synthetic Biology competition. Almost 250 universities compete globally each year. Teams use synthetic biology to design and build biological systems and operate them in living cells.



## What is Synthetic Biology?

New technology means we can make DNA sequences from scratch. Organisms can be designed to perform new, useful functions such as biofuels and disease detection. The only limit is your imagination!



## What is our SynBio project?

We are attempting to recreate the chlorophyll biosynthesis pathway in bacteria using synthetic biology. If our project is successful, it will create significant inroads into the creation of artificial photosynthesis and a new form of 'green energy'.

## Where else can Biomolecular Sciences lead you?

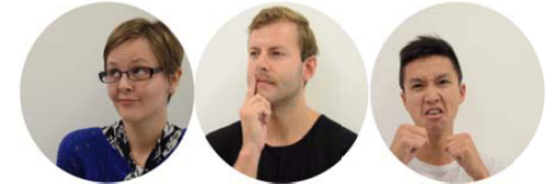
Biomolecular science is the study of how molecules work in biological systems. Your study can branch into biochemistry, genetics, biotechnology and bioinformatics. Careers include research, drug discovery and pharmaceuticals, to name a few.



As part of our project we will be running SynBio outreach activities.

Introducing...

# SO YOU THINK YOU CAN *SYNTHESIZE*



6 CONTESTANTS

Only **1** Synthesizer



## ASK THEM ANYTHING

About SynBio

THURSDAYS 1-3pm

[www.sytycs.org](http://www.sytycs.org)